

**portable power tools
for every department
of railroad maintenance
and operation**

CATALOG 50

Mall

THE TOOLS THAT PUT POWER INTO MANPOWER



**MALL TOOL COMPANY
CHICAGO 19, ILLINOIS**

A NATIONAL INSTITUTION PRODUCING
FOR THE RAILROAD INDUSTRY
THROUGHOUT THE WORLD

**HELPING
MAINTAIN
THE RIGHT-OF-WAY
FOR THE GREAT RAILROADS
OF THE UNITED STATES**

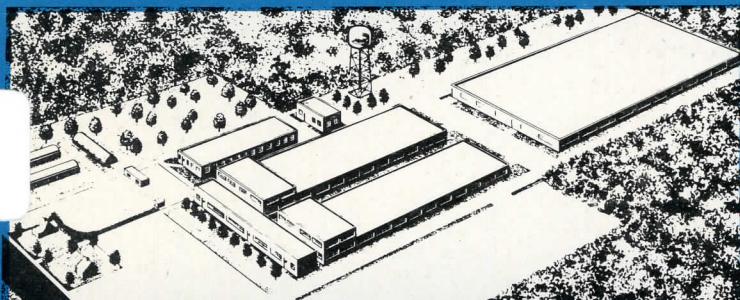
The United States grew with the railroads. As the right-of-way was pushed westward, vast populations followed and settled the frontiers. Today, there are new frontiers for the railroad industry. There is the herculean task of maintaining over 397,000 miles of track to carry passengers and freight traffic never equalled in history. **MALL TOOL COMPANY** is proud to contribute to the successful solution of this problem. This Catalog is designed to help Maintenance and Operation Departments of the great railroads of the United States with the selection of the proper tools to do the job. We welcome the opportunity to serve you.

A NATIONAL INSTITUTION
WITH COMPLETE FACILITIES
AND EXPERIENCE

Mall®



It's traditional in the Railroad Industry to look to MALL for the finest in construction, maintenance and operational tools. We work for the betterment of railroading. Our vast production and assembly lines, our research and testing departments, our representatives in the field, all are in a constant beehive of activity developing and manufacturing the kind of tools you want—to do your job in the best and most economical manner.



MALL TOOL COMPANY is a self-contained unit, manufacturing practically every part that goes into a completed tool. From raw material to finished product, MALL controls the quality and production. Result: Better tools for better work at lower cost.

700,000 SQ. FEET OF FACTORY SPACE DEVOTED TO PRECISION TOOL MANUFACTURE

Located in Mid-America, readily accessible to any section of the United States and Canada, this nationally recognized institution maintains vast plant facilities to meet the demand for MALL TOOLS.

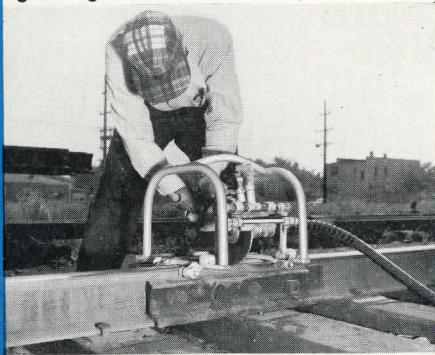
MALL TOOL COMPANY uses only the latest high production equipment employing the most modern techniques in tool manufacture and assembly.

We welcome inquiries on any of the tools listed in this Catalog. Write to the factory or to any of the authorized factory representatives listed on the back page.

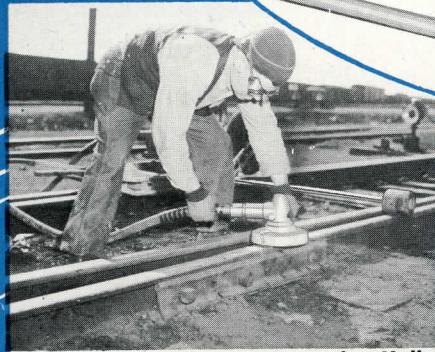
Demonstrations of any MALL TOOL may be arranged with no obligation to purchase involved. You can prove to yourself the money and time savings on the job. Investigate the MALL LINE before you invest in portable railroad tools.



Overflow metal is quickly removed with this engine driving an interchangeable grinding wheel and roller guide.



The new Model 23 engines are invaluable when equipped with this Mall rail slotter for cross slotting rail ends.

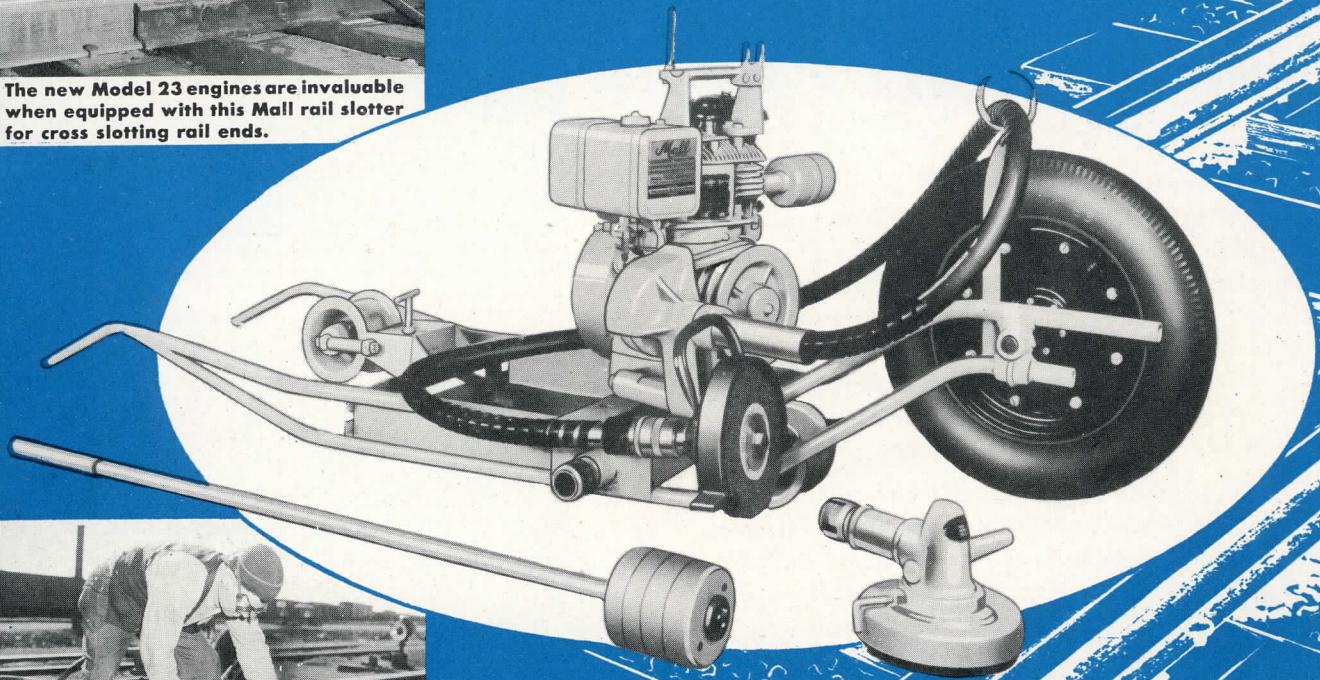


Here is the engine on a popular Mall outrigger mounting. Moves along the rails for speedier surface weld grinding.



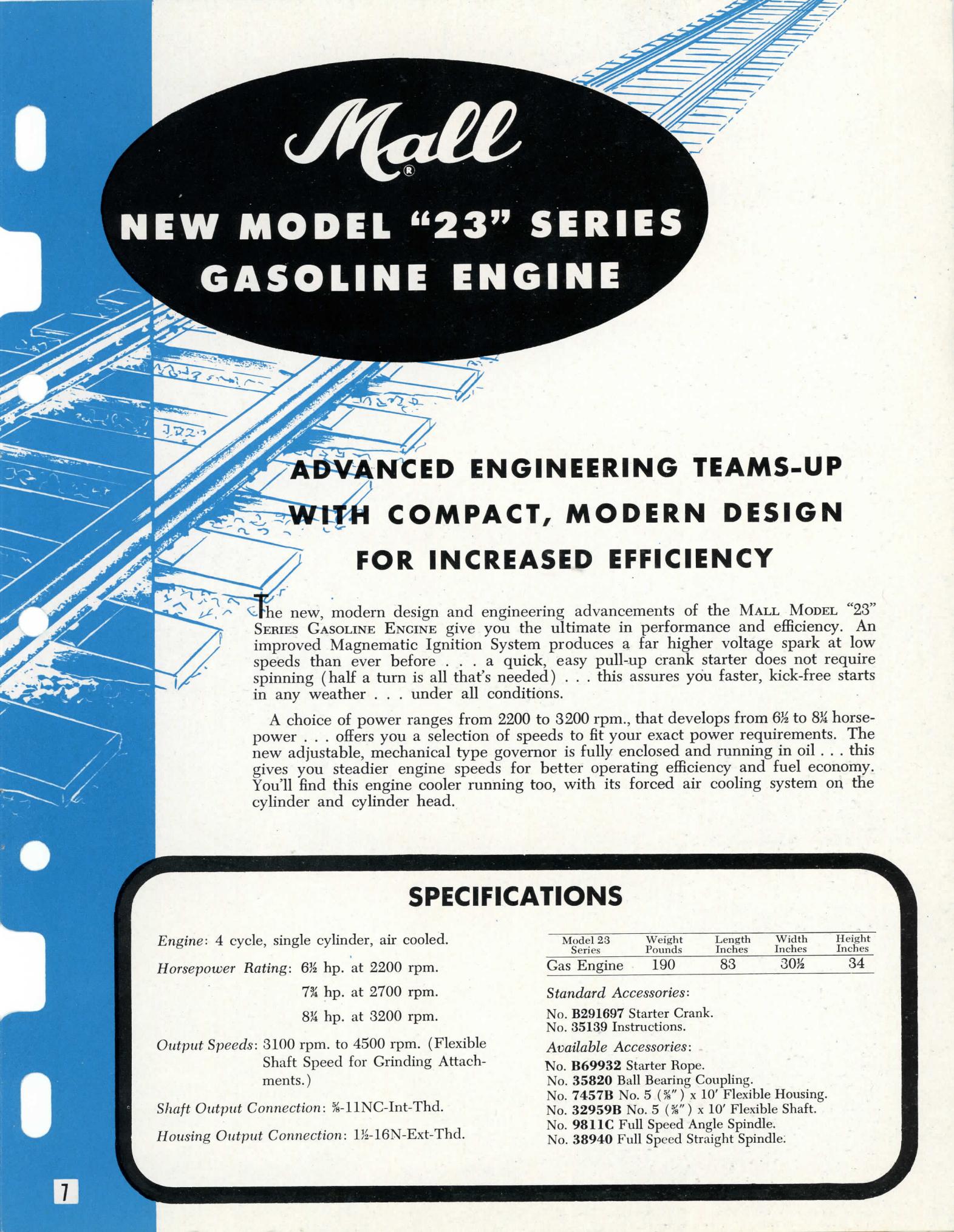
Rail bolt holes are drilled with utmost speed and accuracy with a Mall rail drill attached to this versatile engine.

BUY ONLY ONE
ENGINE TO USE
WITH MANY
ATTACHMENTS



**ENGINE IS ON WHEELBARROW MOUNTING
FOR FASTER & EASIER MANEUVERABILITY**

Your MALL MODEL 23 GASOLINE ENGINE is mounted on a wheelbarrow type, welded tubular steel frame with a pneumatic wheel to increase its portability and utility. A tubular steel outrigger extension arm attaches for mounting on rails . . . enables the operator to grind rail welds without taking the machine along the roadbed. In this way, the machine follows the user automatically from one rail joint to another. This outrigger can be furnished for any gage rail. The outrigger and engine mounting rail wheels are insulated against interference with electrical signal systems and other connections. The entire unit can be moved off the right-of-way by one man and carried by two men.



Mall

NEW MODEL "23" SERIES GASOLINE ENGINE

ADVANCED ENGINEERING TEAMS-UP WITH COMPACT, MODERN DESIGN FOR INCREASED EFFICIENCY

The new, modern design and engineering advancements of the MALL MODEL "23" SERIES GASOLINE ENGINE give you the ultimate in performance and efficiency. An improved Magnematic Ignition System produces a far higher voltage spark at low speeds than ever before . . . a quick, easy pull-up crank starter does not require spinning (half a turn is all that's needed) . . . this assures you faster, kick-free starts in any weather . . . under all conditions.

A choice of power ranges from 2200 to 3200 rpm., that develops from 6½ to 8½ horsepower . . . offers you a selection of speeds to fit your exact power requirements. The new adjustable, mechanical type governor is fully enclosed and running in oil . . . this gives you steadier engine speeds for better operating efficiency and fuel economy. You'll find this engine cooler running too, with its forced air cooling system on the cylinder and cylinder head.

SPECIFICATIONS

Engine: 4 cycle, single cylinder, air cooled.

Horsepower Rating: 6½ hp. at 2200 rpm.

7½ hp. at 2700 rpm.

8½ hp. at 3200 rpm.

Output Speeds: 3100 rpm. to 4500 rpm. (Flexible Shaft Speed for Grinding Attachments.)

Shaft Output Connection: ¾-11NC-Int-Thd.

Housing Output Connection: 1½-16N-Ext-Thd.

Model 23 Series	Weight Pounds	Length Inches	Width Inches	Height Inches
Gas Engine	190	83	30½	34

Standard Accessories:

No. B291697 Starter Crank.
No. 35139 Instructions.

Available Accessories:

No. B69932 Starter Rope.
No. 35820 Ball Bearing Coupling.
No. 7457B No. 5 (¾") x 10' Flexible Housing.
No. 32959B No. 5 (¾") x 10' Flexible Shaft.
No. 9811C Full Speed Angle Spindle.
No. 38940 Full Speed Straight Spindle.



Mall
®

**COMBINATION 8 $\frac{1}{4}$ HP.
RAIL GRINDER**

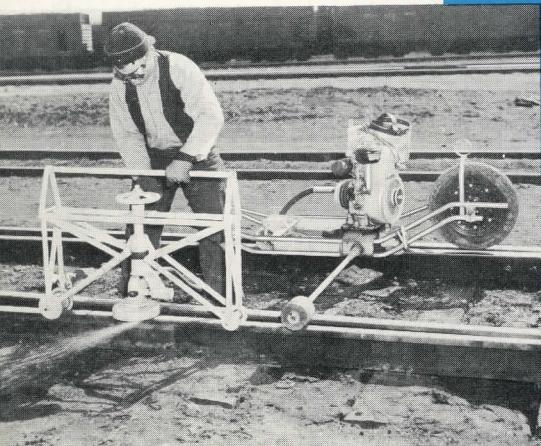
for surface grinding



**THE COST-CUTTING WAY TO
KEEP EVERY MILE
OF TRACK
SMOOTH AND
RIDEABLE**



Convert this all-purpose grinder to many tools in one by simply using different attachments. It drills and grinds.



On stock rails and switch points, overflow metal comes off faster when ground with the **MALL RAIL GRINDER**.



PAYS FOR ITSELF IN A FEW WEEKS OF OPERATION

Your multi-purpose maintenance partner for smoother rails . . . smoother rides for the passengers. Removes overflow metal fast and easy on stock rails and switch points . . . the man on the job covers more miles of track in shorter time.

Has the patented slip-lock detail on the ends of the flexible shaft and on all attachments which enables operator to attach and detach working tools without waste motion or lost time. Flexible shaft and mounting are completely insulated to prevent interference with the signal system. All working parts are designed to prevent injury to the worker. For more accurate surface grinding, a guide is available.

Special outrigger mounting permits fast travel down the road from one rail joint to another. Entire unit can be removed from the right-of-way by one man, and carried by two men. See pages 6 and 7 for a complete description of the power unit.

SPECIFICATIONS

Flexible Shaft—Made of high carbon, hard drawn, steel wire wound solid to the center. Heat treated for additional toughness and long wear.

Flexible Housing—Continuous bearing type for longer life, housing constructed of protected wearproof rubber. Protective metal reinforcing springs imbedded in housing to relieve strain.

Spindles—All MALL hand spindles are full ball bearing mounted for operating ease and long life. Equipped with four extra-large ball bearings. Spindles have slip lock detail for removing and applying attachments quickly.

TOOLS SHOWN

- 5043-CG 8½ Hp. Gasoline Engine Rail Grinder
with
7670A Countershaft Assembly.
18580 Comb. Mounting with Outrigger.
7457 No. 5 x 10 ft. Flex. Shaft Housing.
32959 No. 5 (5/8" dia.) x 10 ft. Flex. Shaft.

EQUIPMENT FOR SURFACE GRINDING

- 9811C Full speed Angle Spindle with 8" Wheel Guard.
10696 Arm Rest (optional).
11670 Surface Grinding Guide (optional).
7028 8" x 1" Grinding Wheel molded to steel backing plate.



The

Mall[®]

**8½ HP. FROG AND
SWITCH GRINDER**

An outstanding feature of MALL RAILROAD MAINTENANCE TOOLS is the opportunity a railroad has to save thousands of dollars through their purchase and use. These MALL TOOLS were specifically designed to be interchangeable on the MALL engine. One power unit serves many attachments. Surface grinding; rail slotting; drilling rails; frog, crossing and switching point grinding; wire brushing—these and many more jobs may be accomplished with the same power unit using different attachments. This is the way MALL TOOL COMPANY works for you—designing the most efficient, all-purpose tools to save you money on initial purchase, and all during their years of service.



MOST EFFICIENT TOOL FOR GRINDING WELDED SURFACES AT FROGS, CROSSINGS AND SWITCHES



TRANSPORTS BY RAIL FASTER AND EASIER

Here's the tool that's needed to assure smooth rail and an even ride at the most critical points of the road . . . at frogs, crossings and switch points. Removes overflow metal and puts every mile of track at its "level-best". May be operated free or with a convenient roller guide which permits unwavering grinding work in between switch points. Outrigger mounting transports complete unit to other jobs along the same track. Modern design of grinder attachment permits day-long maintenance operations without operator fatigue. See description of power unit on pages 6 and 7.

SPECIFICATIONS

Flexible Shaft—Made of high carbon, hard drawn, steel wire wound solid to the center. Heat treated for additional toughness and long wear.

Flexible Housing—Continuous bearing type for longer life. Housing constructed of protected wearproof rubber. Protective metal reinforcing springs imbedded in housing relieve strain.

Spindles—All MALL Hand Spindles are full ball bearing mounted for operating ease and long life. Equipped with four extra-large ball bearings. Spindles have slip lock detail for removing and applying attachments quickly.

TOOLS SHOWN

5043-CG 8½ Hp. Gasoline Engine Rail Grinder with

7670A Countershaft Assembly.

18580 Comb. Mounting with outrigger.

7457 No. 5 x 10 ft. Flex. Shaft Housing.

32959 No. 5 (5/8" dia.) x 10 ft. Flex. Shaft.

EQUIPMENT FOR FROG, CROSSING AND SWITCH GRINDING

9020C Straight Spindle.

7048 8" Steel Guard with handle.

5652 8"x1"x3/4" Edge Type Grinding Wheel.

12473 Roller Type Guard for switch grinding.

7028 8" x 1" Cup Grinding Wheel molded to steel backing plate.

SPEED UP
OPERATIONS
All Purpose

Mall
®
**8½ HP. GASOLINE
ENGINE RAIL SLOTTER**



SPECIFICATIONS

Flexible Shaft—Made of high carbon, hard drawn, steel wire wound solid to the center. Heat treated for additional toughness and long wear.

Flexible Housing—Continuous bearing type for longer life. Housing constructed of protected wear-proof rubber. Protective metal reinforcing springs imbedded in housing relieve strain.

Spindles—All MALL hand spindles are full ball bearing mounted for operating ease and long life. Equipped with four extra-large ball bearings. Spindles have slip lock detail for removing and applying attachments quickly.

TOOLS SHOWN

5048-CG MALL 8½ Hp. Gasoline Engine Grinder with

7670A Countershaft Assembly.

18580 Comb. Mounting with outrigger.

7457 No. 5 x 10 ft. Flex. Shaft Housing.

32959 No. 5 (5/8" dia.) x 10 ft. Flex. Shaft.

EQUIPMENT FOR CROSS GRINDING

12750 Cross Grinding Guide.

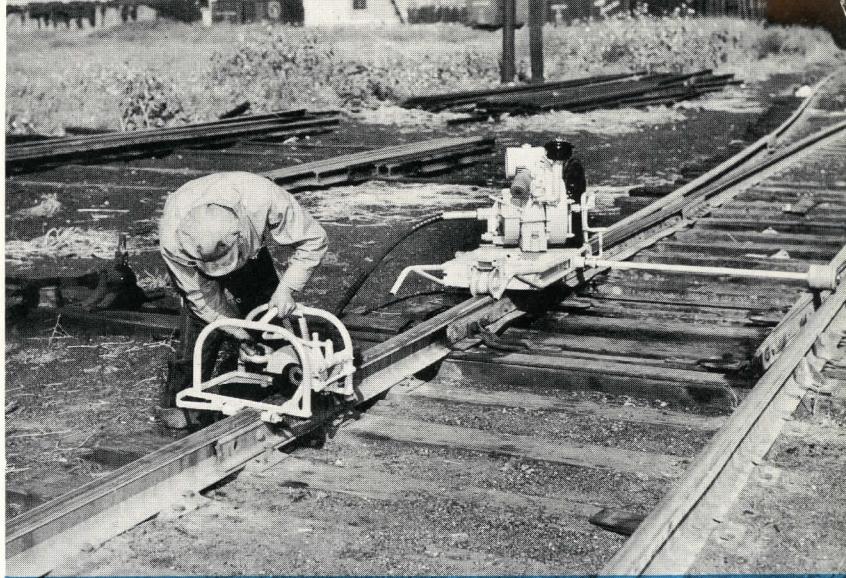
9020C Straight Spindle.

5798-B 8" x 1/16" x 3/4" Grinding Wheel.

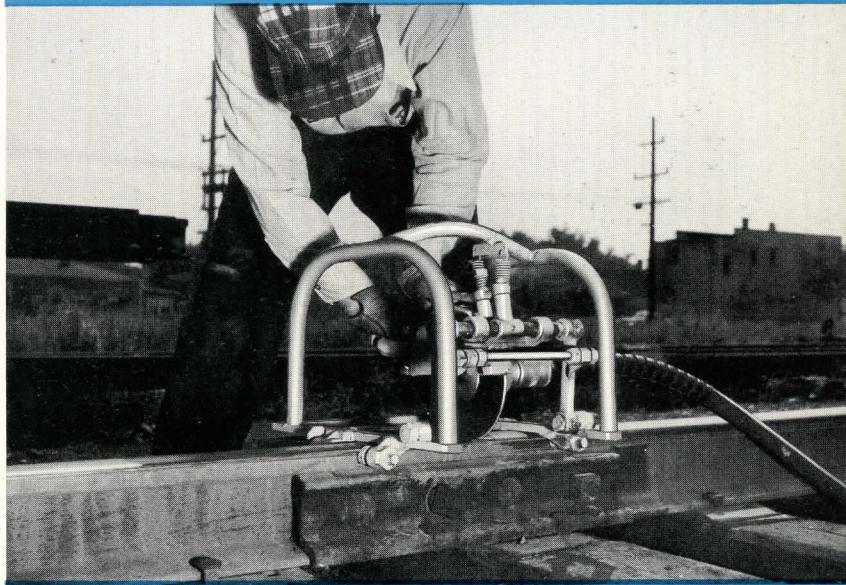
2016 8" x 1/8" x 3/4" Grinding Wheel.

SLOTTING WITH THIS TOOL

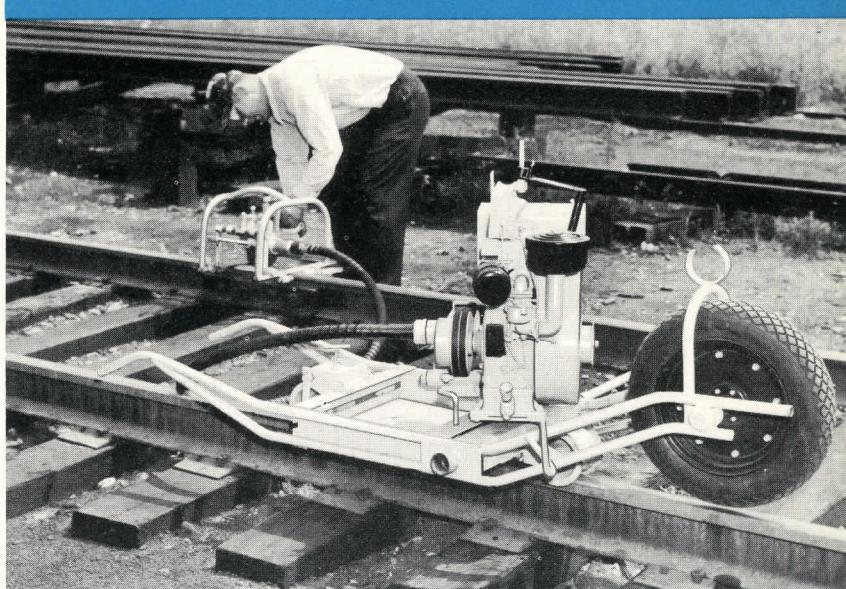
To prevent track humping at the joints due to expansion and assure passenger traffic pleasant, bumpless riding along the road, this MALL RAIL SLOTTER attachment should be an integral part of your maintenance equipment. For fast removal of excess metal as well as slotting rails for expansion, the MALL SLOTTER is the preferred tool of men actually on the job. Because of simplicity of design and operation, the worker moves up and down the road faster, handling both new and old track easily. Safety's built into this MALL RAIL SLOTTER, too. All working parts; grinding wheels, countershaft belts are properly guarded to prevent injury to operator. For description of gasoline engine power unit, refer to pages 6 and 7.



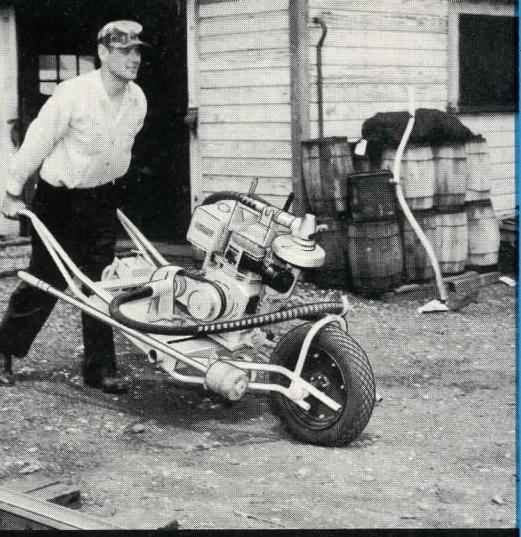
With MALL RAIL SLOTTER you eliminate humping track due to rail-end breakdown.



All working parts are properly guarded for safe operation.



A cross grinding guide is available to make sure every slotting operation is "true".



One man handles a complete drilling operation. This compact tool weighs only 43 pounds—"packs" easily from job to job.



In just two swift motions the operator has the MALL RAIL DRILL off the track for passing trains . . . two more and it's secure again.



In a MALL RAIL DRILL you get controlled drill speed for a more complete rail hole. Geared feed bar brings bit flush to the rail and keeps it moving steadily.

FACTS AND FIGURES ABOUT THE MALL GASOLINE ENGINE RAIL DRILL

Flexible Shaft—Made of high carbon, hard drawn, steel wire wound solid to the center. Heat treated for additional toughness and long wear.

Flexible Housing—Continuous bearing type for longer life. Housing constructed of wear-proof rubber. Protective metal reinforcing springs imbedded in housing to relieve strain.

Rail Drill—Weight, 43 pounds. Length, 23½ inches. Operating speed at bit end, 75 R.P.M. Chuck capacity, 1¾ inches.

TOOLS SHOWN

5043-CG MALL 8½ Hp. Gasoline Engine Grinder with

7670A Countershaft Assembly.

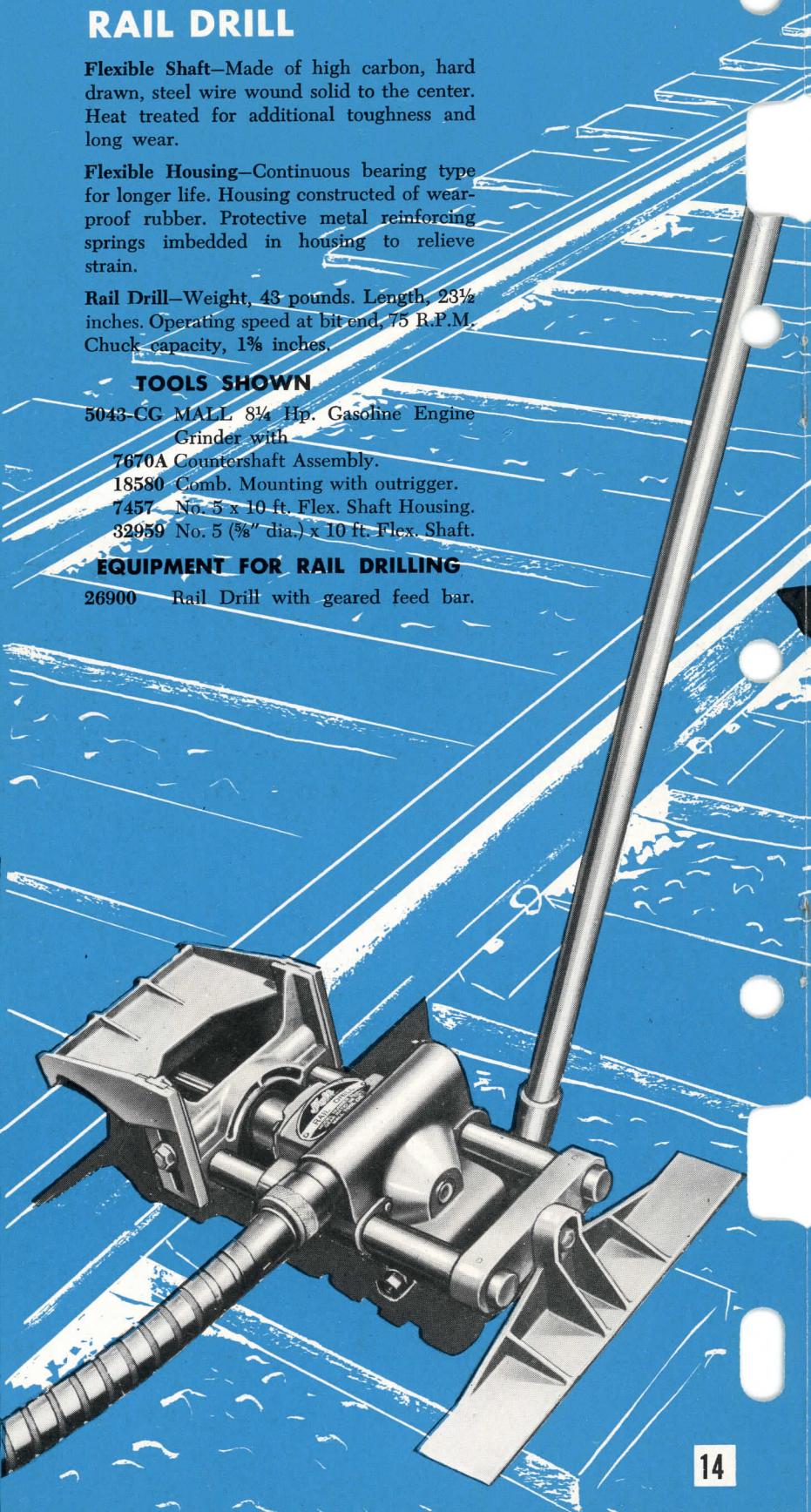
18580 Comb. Mounting with outrigger.

7457 No. 5 x 10 ft. Flex. Shaft Housing.

32959 No. 5 (¾" dia.) x 10 ft. Flex. Shaft.

EQUIPMENT FOR RAIL DRILLING

26900 Rail Drill with geared feed bar.





Mall
®

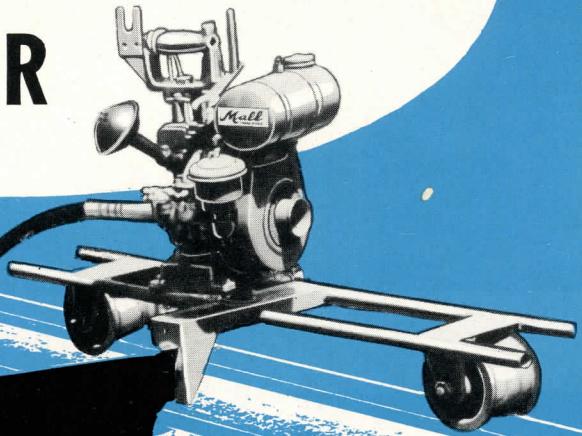
**8 1/4 HP. GASOLINE ENGINE
RAIL DRILL**

THIS LIGHTWEIGHT POWERHOUSE
OF THE RAILS DRILLS FASTER AND EASIER
RAIL HOLES COMPLETE IN A MATTER OF SECONDS

Only the maintenance man can fully appreciate the greater speed of this MALL RAIL DRILL. It latches on rail and off again fast and easy. During the drilling operation the holes come in a hurry with less effort. Puts a 1-1/16 inch hole through 100 or 112 pound rails in less than a minute. There's less weight to "pack" from job to job, too. This compact drilling tool weighs only 43 pounds . . . one man can easily handle.

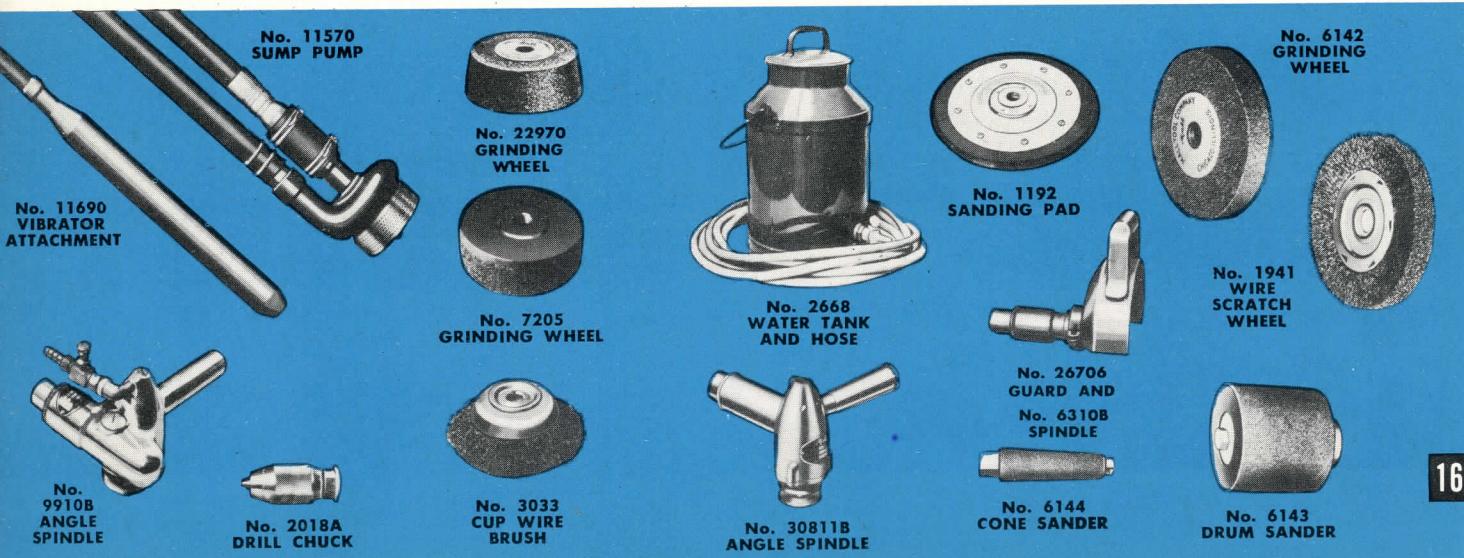
Use this versatile tool for better drilling on rail bolt holes, girder rails or "I" beams. The short length of only 23½ inches permits use on narrow switch sections. The precision-built Celfor chuck holds bit flush to the rail—keeps it moving steadily and evenly through the work. 38 to 1 gear ratio breaks down power unit speed to 75 rpm. at the bit end of the drill for a more complete, "clean-cut" drilling job. See description of engine power unit on pages 6 and 7.

Mall[®] 2 HP. GASOLINE ENGINE GRINDER

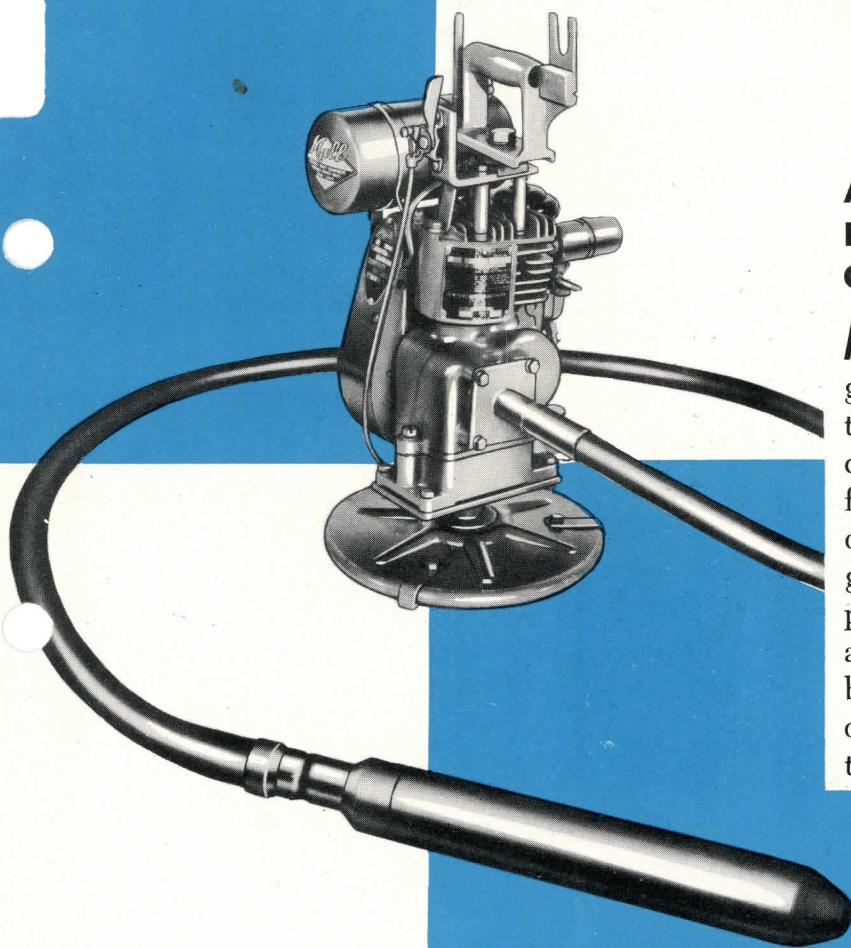


**BRING SHOP SPEED
AND EFFICIENCY TO
THE TRACK**

The mighty lightweight grinder of the Mall Maintenance Line . . . for cleaning rail heads in preparation for the installation of welded type signal bonds. Straight spindle takes a smaller 6" x 1" grinding wheel. Used on grinding jobs which do not require the horsepower of a heavy-duty unit. Ideal for use in the signal department. Mounted on outrigger for easy transportation down the track, or with round base for off track operation.



**COMPACT
PORTABLE
POWERFUL**



**AN ALL-PURPOSE POWER UNIT
FOR THE MAINTENANCE SHOP OR
ON THE ROAD**

Make this compact 2 Hp. Gasoline Engine your working partner in the shop or on the right-of-way. So lightweight one man can carry it without tiring . . . yet, so powerful it will be used day after day on hundreds of jobs. Outrigger can be made to fit any gauge rail. Metal wheels fully insulated to prevent interference with signal systems. Can also be furnished with 360 degree swivel-base mounting. Engine and mounting weigh only 70 pounds. Comes equipped with tool tray, carrying handle and tool holder.

SPECIFICATIONS

Engine—2 Hp., variable speed, direct drive, air cooled. Oil capacity, $1\frac{1}{3}$ pints. Gasoline capacity, 2 quarts.

Mounting—Anti-creep round, 360-degree swivel base mounting with carrying handle, wrench and spindle bracket. Engine and mounting—net weight, 70 lbs. Also available with outrigger mounting.

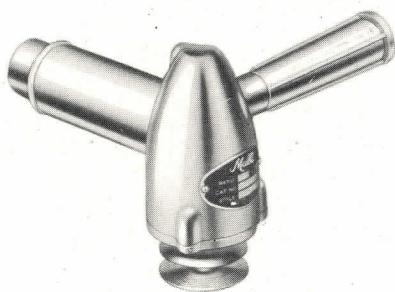
Flexible Shaft and Housings—Shaft is $\frac{7}{16}$ " diameter, made of steel wire wound solid to the center. Housing made of tough wearproof rubber and canvas—continuous internal bearing for longer life.

Unit for Signal Bond Grinding

3544-DG Machine including lightweight 4 cycle, air-cooled Gasoline Engine.
14639 Railroad type mounting.
7320 No. 35 x 12 ft. hard-rubber Flexible Shaft Housing.
32951 No. 35 x 12 ft. ($\frac{7}{16}$ " dia.) Flexible Shaft.
6310B Straight Spindle.
26706 6" steel Grinding Wheel Guard.
7205 5" grinding wheel with $\frac{3}{4}$ " arbor.
9697 Adapter for use with $\frac{5}{8}$ " arbor grinding wheel.

MALL FLEXIBLE SHAFT ATTACHMENTS

SERVE YOU IN A HUNDRED WAYS
ON JOB AFTER JOB



MALL ANGLE SPINDLES
DRY TYPE

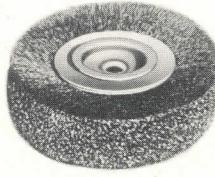
These spindles are made for operation with Mall concrete vibrating units. They're full ball bearing mounted for smoother running and longer life. Made of light, durable aluminum alloy.

- 14011B**—Full speed angle spindle.
- 14012B**—Half speed angle spindle.
- 14013B**—Third speed angle spindle.
- 14014B**—Quarter speed angle spindle.



MALL STRAIGHT SPINDLE

6310B—Here's the full speed spindle to use with all Mall flexible shaft power units . . . for grinding, wire brushing, sanding and numerous other uses. This standard duty unit is full ball bearing mounted for easy operation and prolonged life. Sturdily constructed for maximum service. Furnished with washer and clamping bolt.



MALL CUP GRINDING WHEEL

22970—This 6" diameter cup-shaped grinding wheel produces smooth, uniform surfaces without gouge marks. Has threaded insert. Made of coarse silicon carbide, number 8 grit. For wet grinding—concrete, brick, granite and cement block.

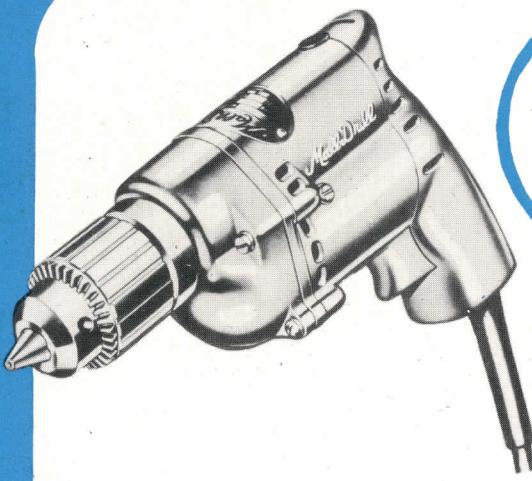
MALL EDGE GRINDING WHEEL

6142—A 5" diameter edge type grinding wheel for use on Mall straight spindles. You'll find it ideal for removing burs, smoothing castings and welds. Has a threaded insert. Made of quality material.

MALL WIRE BRUSH WHEELS

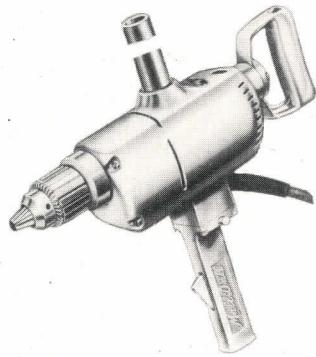
These edge type wire wheels are for wire brushing small areas, curved surfaces, spots.

No.	Gage	Diameter	Width
2019	30	6 -inch	1½-inch
2019A	23	6 -inch	1½-inch
2019B	33	6 -inch	1½-inch
2019C	38	6 -inch	1½-inch
1941	00	4½-inch	1 -inch



30 USEFUL PORTABLE TOOLS TO SAVE MANHOURS AND MONEY

Above is one of the many compact, one hand MallDrills. These range in capacities from $\frac{1}{4}$ to $\frac{1}{2}$ -inch and are available in a multitude of speeds for all types of precision drilling. All equip with attachments for wire brushing, grinding and other uses.



Heavy duty MallDrills will handle all the extra tough work. They come in $\frac{3}{8}$ to $1\frac{1}{4}$ -inch capacities and in various speeds. Used with all types of bits. Some models equip with Morse tapers for driving socket wrenches.



Speedy MallSaws, equipped with the various blades, cut lumber, cement, tile, brick, metal and just about any other material. Blade sizes range from 6 to 12-inches with cutting capacities from 2 to $4\frac{5}{16}$ -inches.

Mall portable tools on the job mean days and dollars to the good. It doesn't take long for all the manhours, saved by the use of Mall portable tools, to mount into saved days of work. With labor costs what they are today, there is no need discussing the money saving possibilities . . . for they speak for themselves.

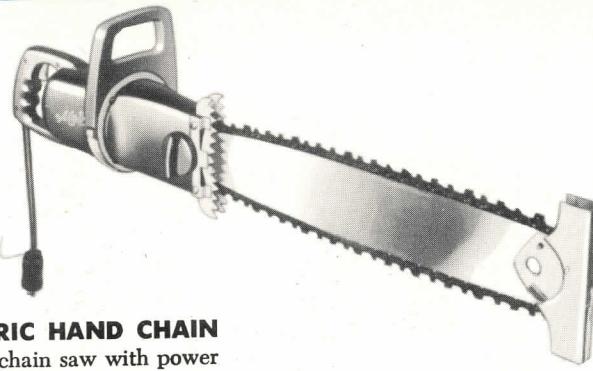
Here are samples of preferred MallDrills and MallSaws . . . the very finest in their field. Every maintenance department has a wide use for these fast-action power drills and circular saws, for their lightweight portability makes them practical and profitable for operation everywhere. With over 30 models to select from, you'll find a complete range of sizes, styles and capacities in these tools to meet your every requirement, to fit your needs perfectly. In this way, you are assured the right tool for each job . . . one that is neither too small nor too large. This feature alone cuts expenditures, for your men use a power tool that is "tailored" to the job . . . eliminating strain on both operator and tool.

There are models to run on standard or high cycle current, or off portable generators. Pneumatic models also available.

SEND TODAY FOR FREE
CATALOG NO. 2440

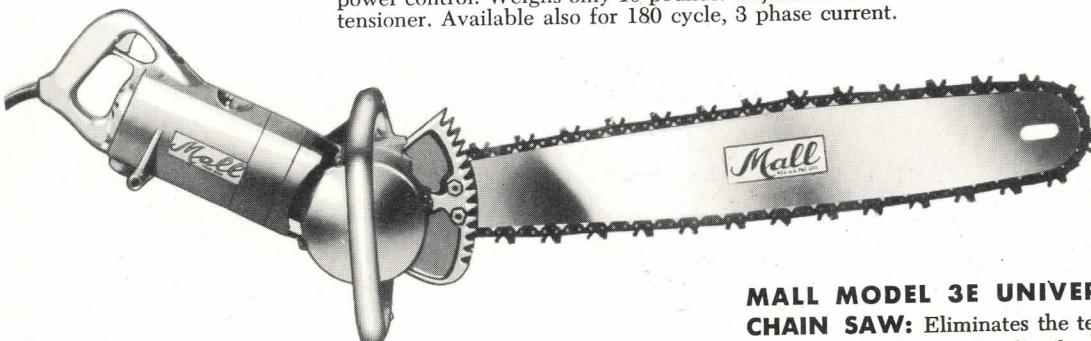
PORTABLE POWER TOOLS

OVER 1000 TOOLS FOR A MILLION JOBS



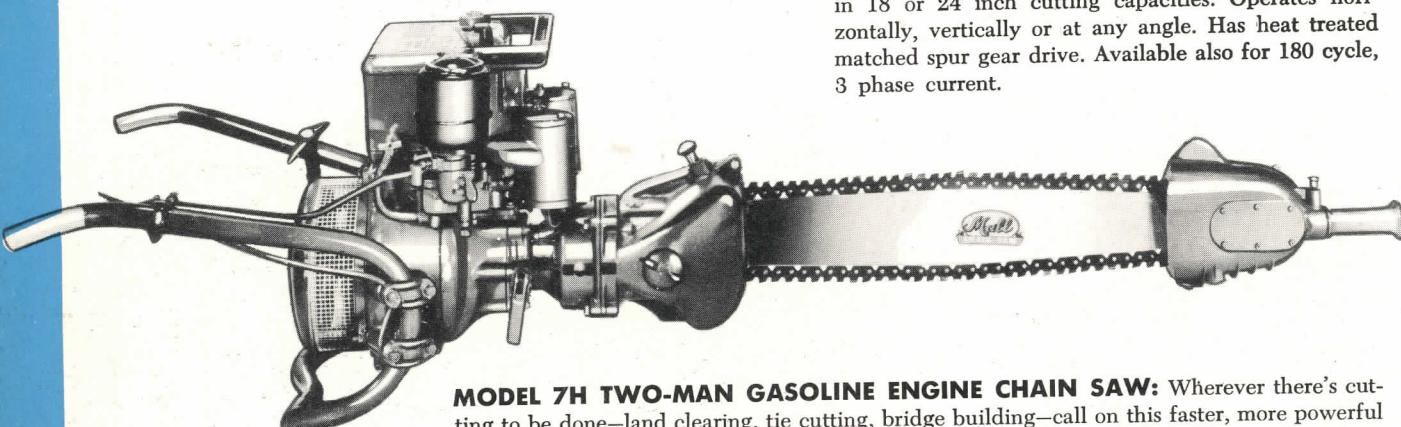
MALL MODEL 11E18 ELECTRIC HAND CHAIN SAW

SAW: Fast cutting "one-hand" chain saw with power and stamina to cut all timber and lumber up to 18" with one cut and 36" with two cuts. It's designed for easy one hand operation from ladders, scaffolds and limbs. Built-in trigger switch offers instant fingertip power control. Weighs only 19 pounds. Adjustable chain tensioner. Available also for 180 cycle, 3 phase current.

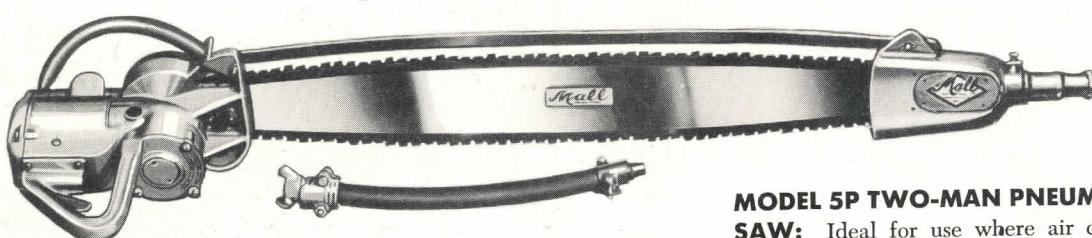


MALL MODEL 3E UNIVERSAL ELECTRIC CHAIN SAW

CHAIN SAW: Eliminates the tedious work of hand sawing heavy lumber in the shop. Can be furnished in 18 or 24 inch cutting capacities. Operates horizontally, vertically or at any angle. Has heat treated matched spur gear drive. Available also for 180 cycle, 3 phase current.



MODEL 7H TWO-MAN GASOLINE ENGINE CHAIN SAW: Wherever there's cutting to be done—land clearing, tie cutting, bridge building—call on this faster, more powerful Mall Chain Saw for help. Operates without compressors or generators anywhere along the road. Has powerful 2-cycle engine with automatic clutch that keeps engine running if cutting chain is pinched in cut . . . Chain tensioning device on idler end. Can be furnished in capacities from 24 inches to 12 feet.



MODEL 5P TWO-MAN PNEUMATIC CHAIN SAW

SAW: Ideal for use where air compressors are available—in tunnels or caissons where gasoline or electric models cannot be used. Has rotary, sliding vane type air motor with built-in oiler for motor lubrication. Operating controls conveniently located for maximum safety. Idler assembly includes chain tensioning device. 24, 36 and 48 inch capacities.

Models available for operation under water.



Mall
®

CHAIN SAWS

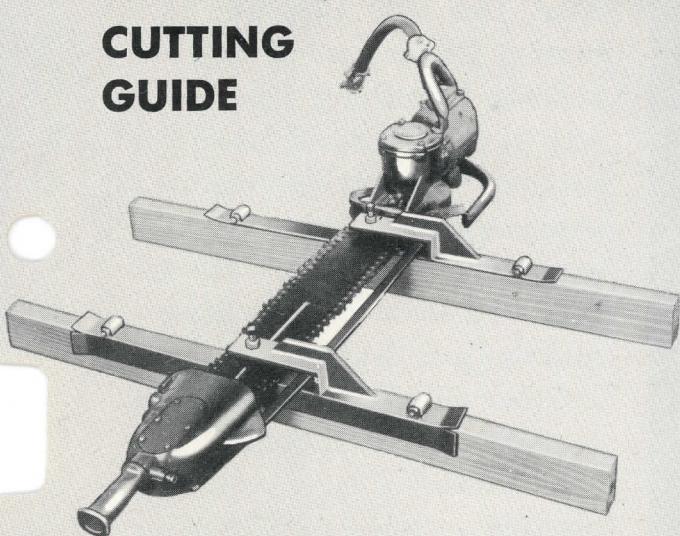
GASOLINE ENGINE
PNEUMATIC
ELECTRIC

THE MOST COMPLETE
LINE OF CHAIN SAWS

- Exclusive Positive Chain Tightening Method Prevents Chain Tension From Getting Out of Its Original Adjustment.
- 180 Degree Swivel Permits Operator to Maintain Natural Cutting Position. Only the chain attachment swivels—no heavy engine to tilt.

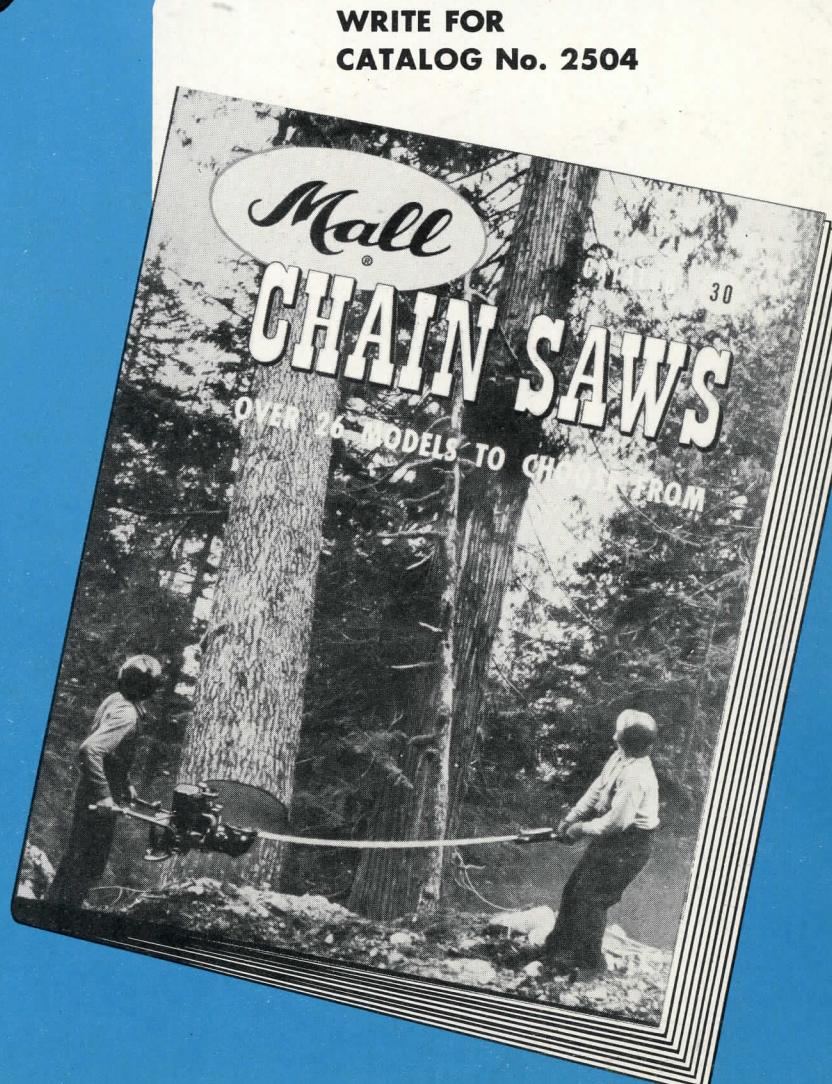
WRITE FOR
CATALOG No. 2504

MALL CHAIN SAW CUTTING GUIDE



A handy tool for use with Mall Chain Saws when cutting off bridge piling. Will cut piling straight across with no trimming necessary. Will work well with any type of Mall Chain Saw of any size. A money, time, and work-saver on bridge building jobs.

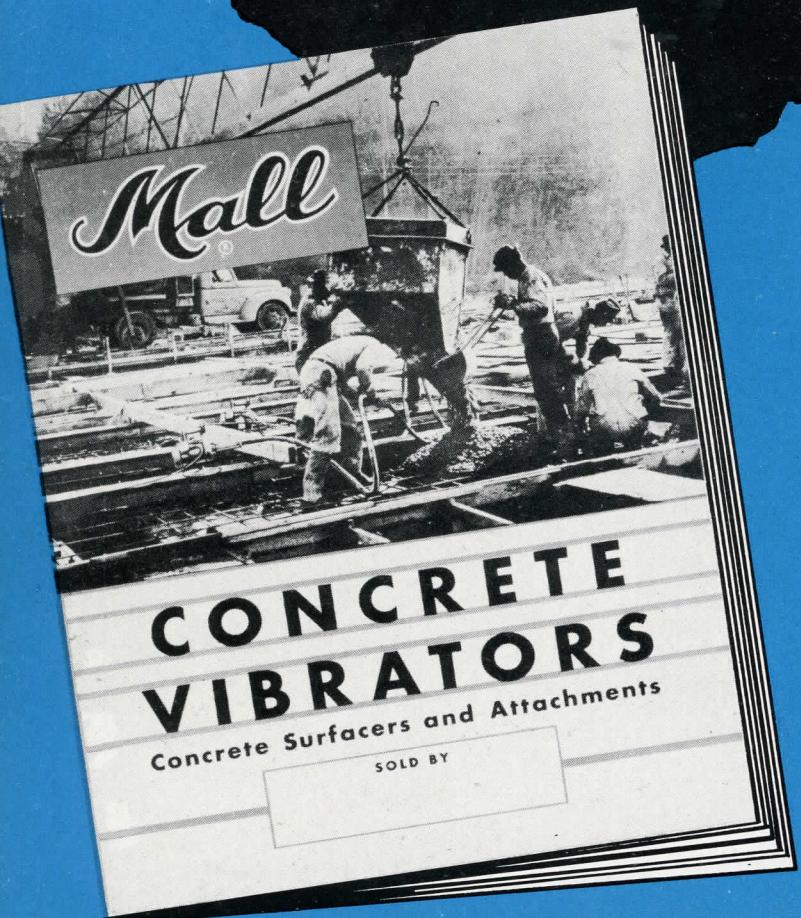
Check Coupon on Page 26 for Handy Reference Catalog



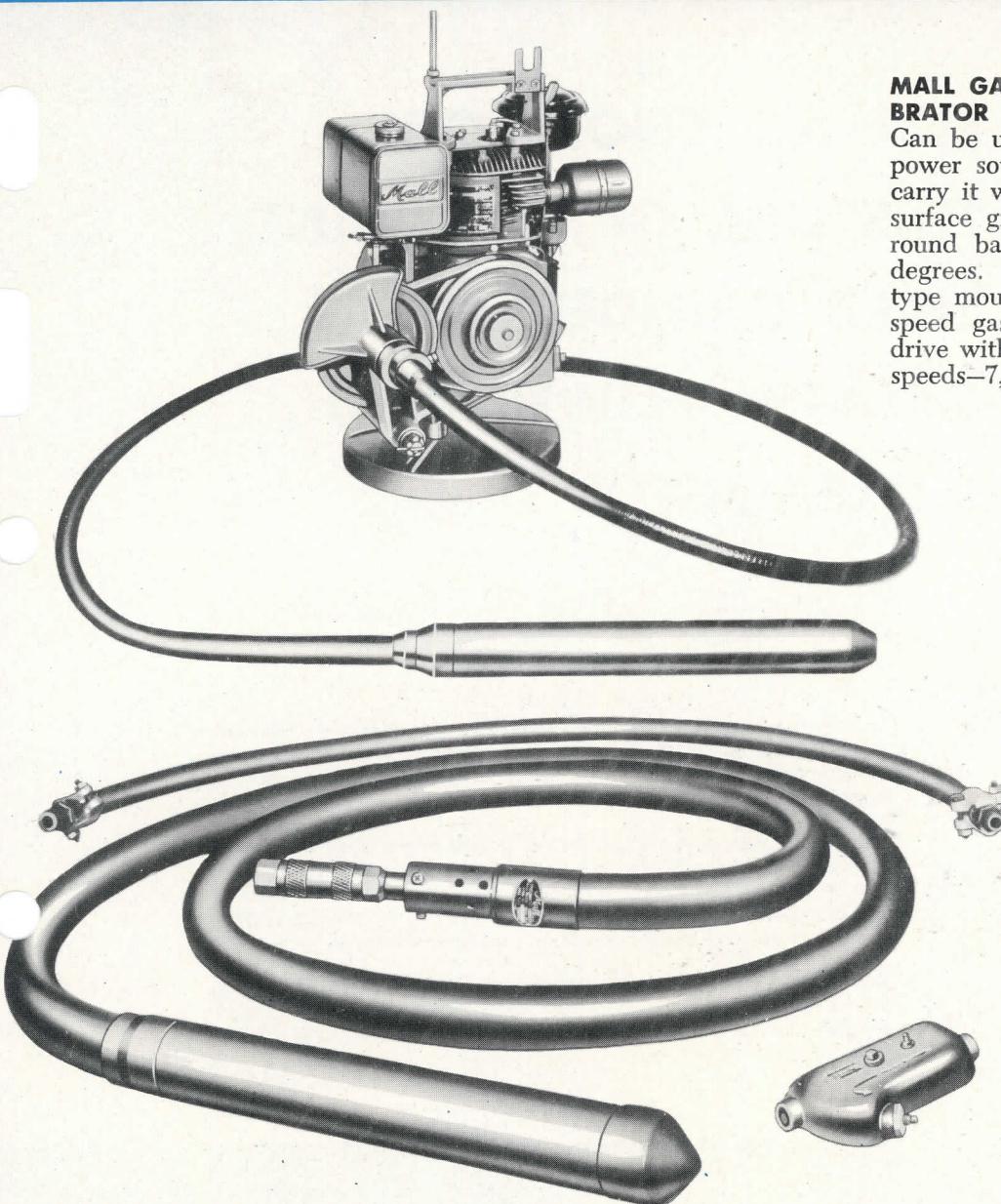
Mall[®] CONCRETE VIBRATORS

WRITE FOR **FREE CATALOG**
NO. 2159

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Vibrate for denser, stronger concrete. Use Mall Concrete Vibrating Equipment in bridge building, for building dams, culverts and any kind of concrete structure. Mall manufactures the complete line. Complete specifications will be found in Catalog 2159. This useful reference guide contains excellent information and recommendations on the use of vibrators. Tells the advantages of vibration over hand puddling methods . . . how more thorough compaction may be obtained. Be sure you receive a copy of this comprehensive study.

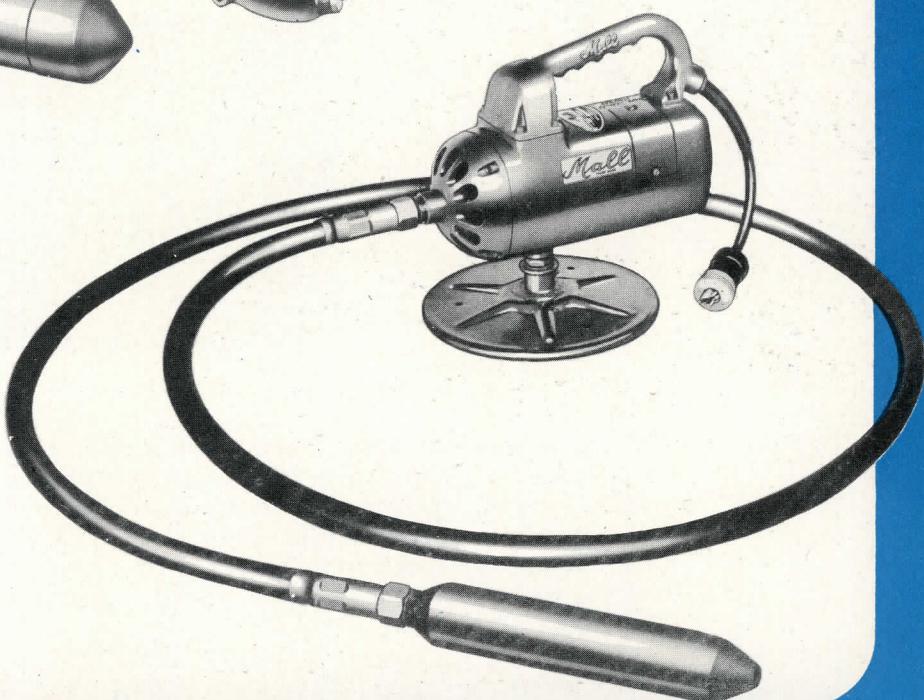


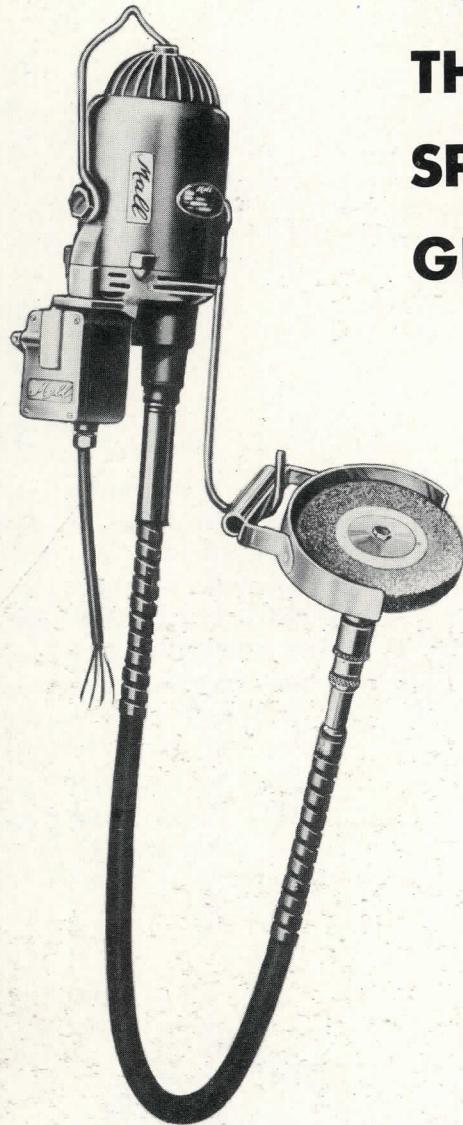
MALL GASOLINE ENGINE CONCRETE VIBRATOR ON ROUND BASE MOUNTING: Can be used anywhere — far away from power sources. The man on the job can carry it with him. Use it for vibrating or surface grinding newly set concrete. Has round base mounting which swivels 360 degrees. Also available with wheelbarrow type mounting. 5 HP. air-cooled variable speed gasoline engine. Has countershaft drive with automatic clutch. Countershaft speeds—7,000 or 10,000 R.P.M. for vibrating.

This **MALL UNIVERSAL ELECTRIC CONCRETE VIBRATOR** powered to give up to 10,000 vibration frequencies per minute gives faster, more complete compaction of concrete. Liberal use of light metals such as aluminum throughout, keeps motor weight down to only 37 pounds. Protected from harmful dirt and harsh abrasives by a special, renewable air filter.



For tunnel work, caissons and other deep construction work or where explosive or inflammable material may be present, the **MALL PNEUMATIC CONCRETE VIBRATOR** is recommended. Has a line strainer and oiler with twist hand throttle. Vibrator gives up to 11,000 vibration frequencies per minute. Equipped with extra air hose length to permit work in deep, narrow openings next to the concrete pouring point.





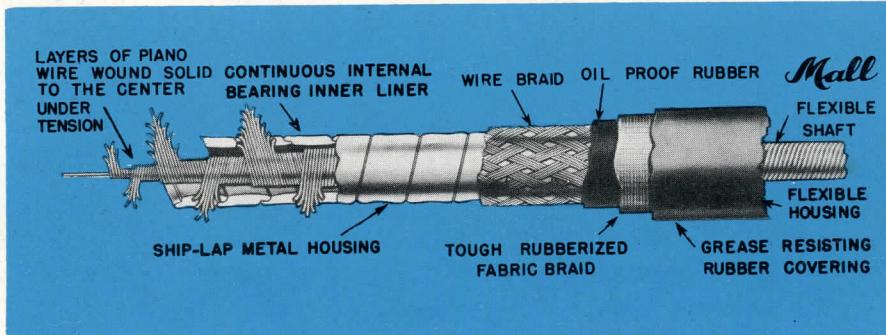
FOR ALL SHOP JOBS— THIS LINE OF CONSTANT SPEED GRINDERS WITH GREATER POWER AND FLEXIBILITY

Probably the most versatile line of tools manufactured by the Mall Tool Company. These constant speed, geared head or direct drive flexible shaft tools have a thousand and one uses in any railroad shop.

Operator carries only the tool with all motor weight removed. Work is speeded through easier tool handling. Power unit rests on floor stand that rolls easily from job to job, or from special hanger bail mounting installed overhead.

The Mall motor delivers the power punch every time withstanding 100% additional horsepower over rated capacity on momentary overloads without burnouts. Available with ventilated or totally enclosed—dust and vaporproof—Mall power units turn in a top performance under the most adverse conditions.

Every feature of a Mall Flexible Shaft Tool . . . the portability, the handy motor mounting that cuts down fatigue, its lightweight construction, its adaptability to any job—all these add up to more work done faster.



Mall Flexible Shafts are being used to transmit power from gasoline engine, electric motor, and air driven power units for heavy duty production work such as grinding to remove excess metal, snagging, concrete vibrating and finishing, rail grinding and a multitude of other jobs. Made of high carbon steel wire, wound solid to the center, Mall Flexible Shafts are heat treated for additional toughness and long wear. Flexible housings have frequent continuous bearing surfaces with the power carrying shaft always properly centered and guided to prevent power losses and wear.

researching the railroad's Needs

Mall ENGINEERING DEVELOPMENT CREATES THE RAILROAD TOOLS OF THE FUTURE

Over 30 years of constant research, testing and improvement stands behind every piece of Mall railroad equipment. The Mall engineering staff is ever studying the needs and problems of modern railway construction and maintenance. Only by fully understanding the needs of the railway industry, can Mall engineering design and build tools to serve with utmost economy, efficiency and practicability.

Regardless of climatic conditions or how tough the job, there's a Mall tool to do the work faster, easier and cheaper. Every Mall tool built for railroad use has been tested in the field . . . and has come through with flying colors.

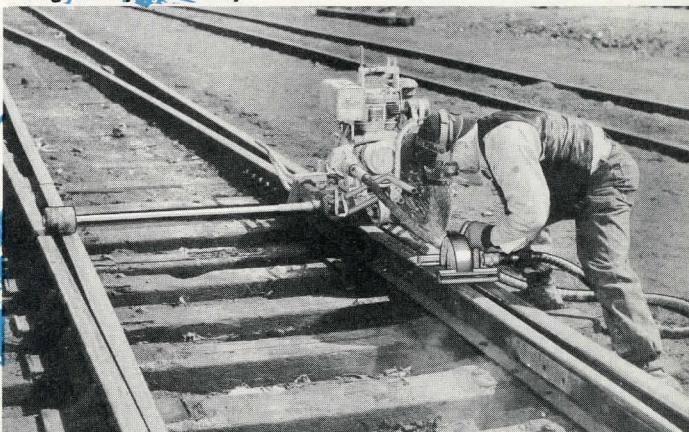
As the great railroad industry expands, stretching its steel fingers out across the land, Mall Tool Company is prepared to meet the increased demands for improved rail maintenance and building tools, the equipment to keep the right-of-ways in shape for smoother, faster and safer operation of the endless streams of rolling stock . . . the lifeline of our nation.

Mall Tool Company will continue to dedicate its vast know-how, resources and skill towards the betterment of today's tools . . . so that the Mall railroad tools of tomorrow will still be the very latest in design and the very finest in quality.

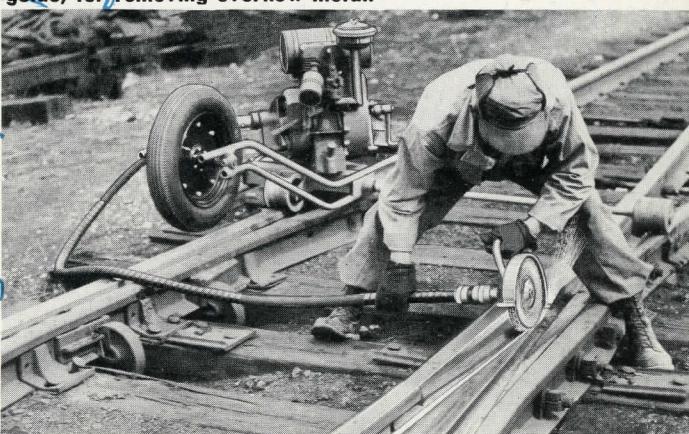
Mall tools on the job . . . mean money saved and more work accomplished faster.



Frog grinding is sped up by using a Mall interchangeable grinding wheel attachment. This rail mounted outfit can be moved along swiftly and easily.



Here a Mall rail mounted engine unit drives one of the interchangeable grinding wheels, equipped with a special roller guide, for removing overflow metal.



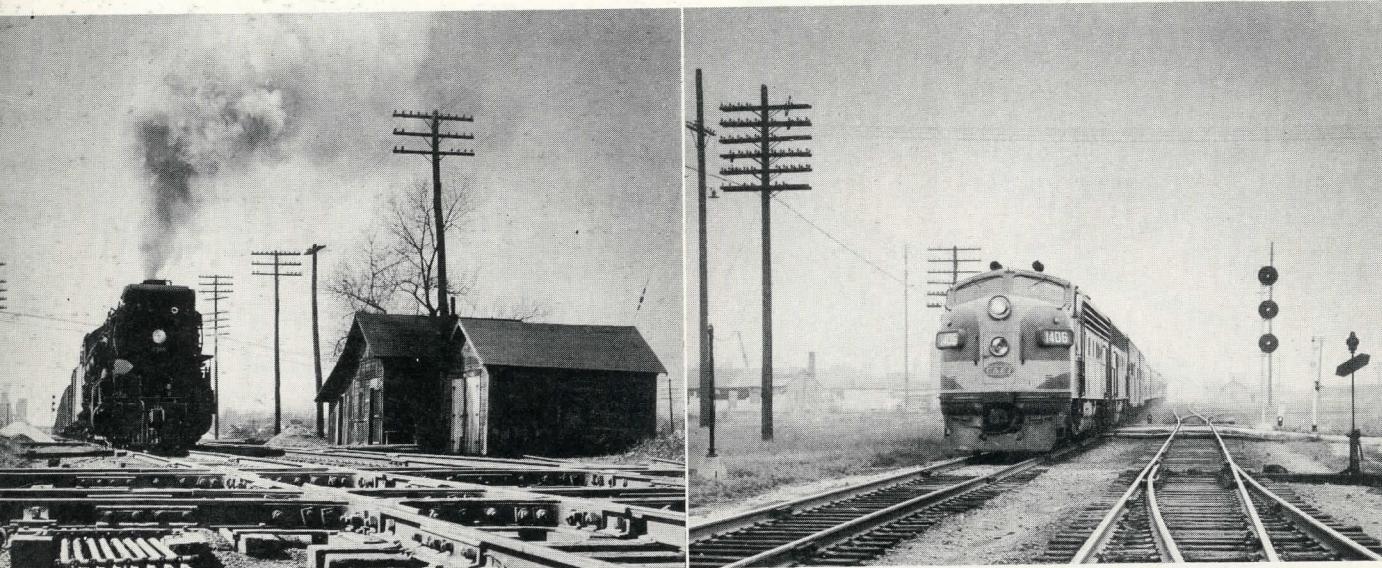
The extreme portability of Mall rail grinders and the freedom of movement allowed the operator, simplify every phase of rail surface maintenance.



A PIONEER IN THE DEVELOPMENT OF SPECIALIZED TOOLS FOR THE RAILROAD INDUSTRY

MALL engineers were among the first to develop and improve the use of flexible shaft rail grinders. The name of MALL has become synonymous with profitable railroading, for, through constant experimentation with new tools for old jobs, MALL has helped reduce railroad maintenance costs.

Now the job can be done faster and better. Railroad men throughout the country are discovering this. As a consequence, you'll find MALL-developed tools at work on practically every railroad in the United States . . . doing each job better and more efficiently.



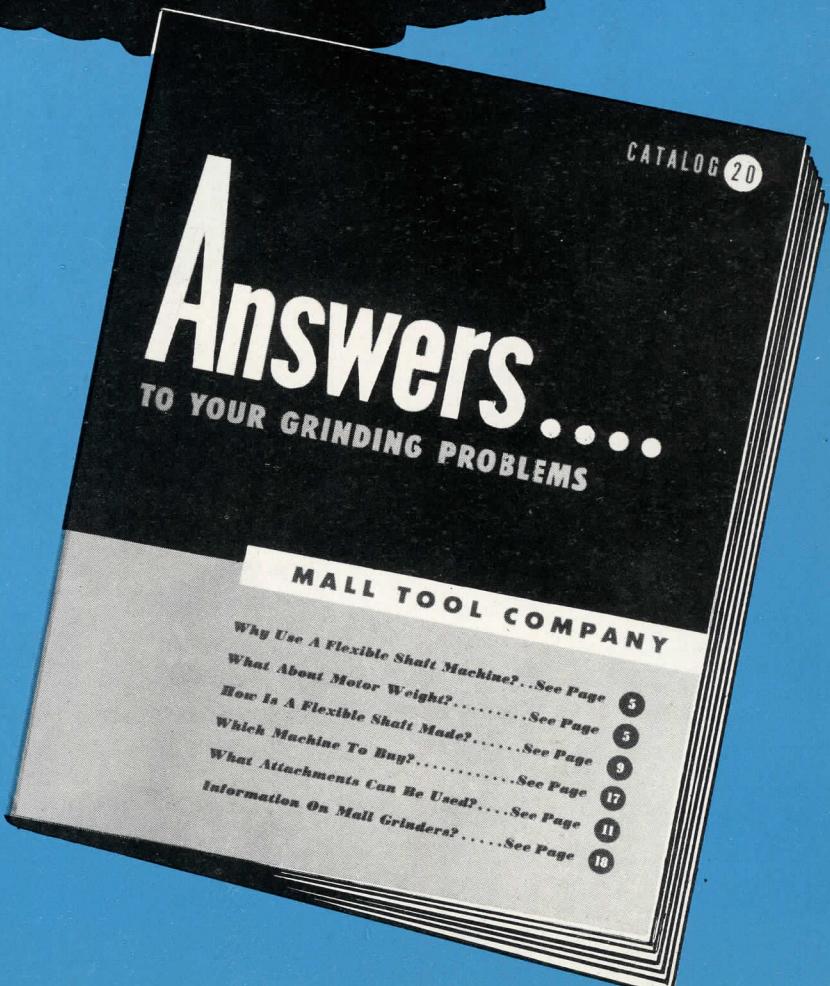
Mall Maintenance Tools can be found on practically every railroad in the nation.

Mall
®

FLEXIBLE SHAFT EQUIPMENT

CATALOG 2445 GIVES COMPLETE
SPECIFICATIONS . . . Write for
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The Mall Tool Company has prepared a comprehensive catalog describing the complete Flexible Shaft Equipment line. This informative booklet will serve you as a handy reference not only for specifications on the Mall Flexible Shaft Tools available, but also because it contains valuable operating tips, money saving ways to increase production and cost cutting ways to save manpower and time. Write for your copy today. Check the coupon on Page 26 and mail to the Mall Tool Company.



A COMPLETE GUIDE TO PORTABLE POWER TOOLS FOR RAILROAD MAINTENANCE

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Chicago 19, Illinois

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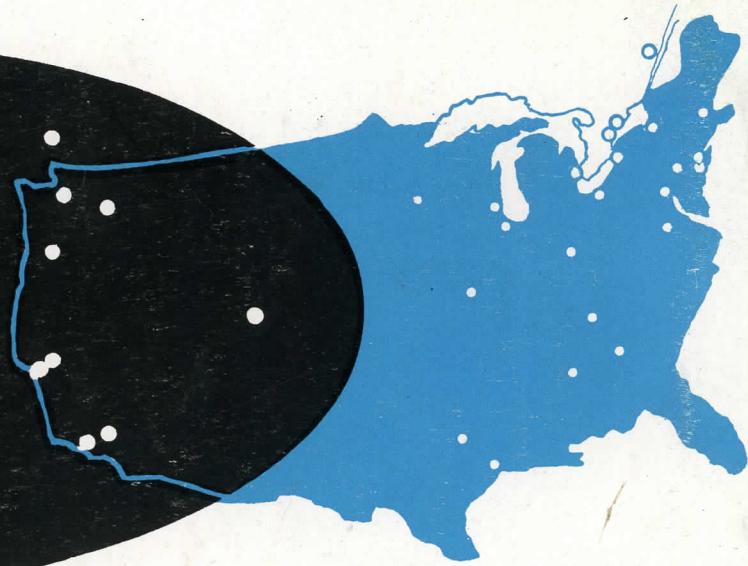
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This is a general catalog of reference information about the Mall railroad maintenance tool line. You find pictured on preceding pages catalogs for specific classes of tools in which you will find more complete specification data to help determine your needs. To secure these catalogs simply check the boxes in the coupon at right and mail to the Mall Tool Company, 7740 South Chicago Ave., Chicago 19, Illinois.

**HELPING
MAINTAIN
THE RIGHT-OF-WAY
FOR THE GREAT RAILROADS
OF THE UNITED STATES**

The United States grew with the railroads. As the right-of-way was pushed westward, vast populations followed and settled the frontiers. Today, there are new frontiers for the railroad industry. There is the herculean task of maintaining over 397,000 miles of track to carry passengers and freight traffic never equalled in history. **MALL TOOL COMPANY** is proud to contribute to the successful solution of this problem. This Catalog is designed to help Maintenance and Operation Departments of the great railroads of the United States with the selection of the proper tools to do the job. We welcome the opportunity to serve you.

38 FACTORY BRANCHES TO SERVE YOU



To make sure our customer's receive prompt service on Mall products, we maintain a network of factory service branches throughout the country. Staffed by factory-trained personnel and stocked with genuine Mall parts, these branches are equipped to give you expert service on any Mall Tool in need of repair. You can save time as well as money by using the Mall Service Store nearest you.



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Manufacturers of Portable Tools, Timber Chain Saws, Flexible Shaft Grinders, Pneumatic High Cycle Tools, Concrete Vibrators, Concrete Surfers, Concrete Rubbing Units, Rail Grinders Electric • Pneumatic • and Gasoline Engine Powered